The Boeing Company
P.O. Box 3707
Seattle, WA 98124-2207

August 15, 2006
9704-PFS-168

DOCUMENT CONTROL DESK
UNITED STATES NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

Subject: GT STRUDL Program Report Forms 2006.07

Reference: a) Boeing Letter G-1151-RSO-92-365 dated August 31, 1992; R.S. Orr to the NRC Operations Center

b) NRC Letter Docket No. 99901227 dated August 12, 1992; L. J. Norrholm to R. S. Orr; Subject: Response to 10 CFR 21 Inquiry

Dear Sir or Madam:

In accordance with the Reference correspondence and 10 CFR 21, Boeing is sending the NRC the attached error notices received from our former software suppliers. Because of unknown current addresses, the following former customers were not notified:

Reactor Controls, Inc
Echo Energy Consultants
Nuclear Applications and Systems Analysis Company (Japan)
Nuclear Power Services
GPU Nuclear Corporation
Tenera, Inc.
Stone & Webster Engineering
Raytheor Engineers & Constructors
Gilbert Associates, Inc.

Error notices have been sent to our other former customers.

Very truly yours,

Pat Soroe
Nuclear Administrator
206-300-2845
patricia.f.soroe@boeing.com

Enclosures: GT STRUDL Program Report Forms 2006.07

IE19

GTSTRUDL Program Report Form

GPRF No.: 2006.07

DATE: 6/20/06

FROM: Computer-Aided Structural Engineering Center
Georgia Institute of Technology
Atlanta, Georgia 30332-0355

SEVERITY LEVEL:

X URGENT	Problem results in incorrect answers which may not be apparent or job aborts and cannot be recovered within the session or job.
_ SERIOUS	Problem results in incorrect answers which are obvious or problem prevents completion of a particular user's task.
_ MINOR	Problem can be worked around or problem poses high frustration factor.
_ INFORMATIVE	Documentation error, program usage tip, user inconveniences.

Date Problem Confirmed June 21, 2006

Date Notification Sent 6/20/06

Computers All

Operating System All

Version All Versions

Target Release for Correction Version 29.0

Michael H. Swanger
Signature
R & D Division

Sr. RE
Title

Michael H. Swanger
Typed or Printed Name

6/20/06
Date of Signature

David C. Key
Signature
Professional Services Division

Configuration Control Manager
Title

David C. Key
Typed or Printed Name

6/20/06
Date of Signature

GTSTRUDL Program Report Form
(Continued)

GPRF No.: 2006.07

DATE: 6/20/06

DESCRIPTION:

Section force computation will abort for pseudo static loads computed from response spectrum and harmonic loads if the number of modes used to compute the response spectrum and/or harmonic analysis results is greater than the number of modes available at the time the section force computation is attempted. The most likely scenario for this to occur is described as follows:

1. Perform an eigenvalue analysis for 160 modes, for example.

2. Execute response spectrum and/or harmonic analyses, compute results, and create one or more pseudo static loading conditions from the computed response spectrum and/or harmonic analysis results.

3. Perform a second eigenvalue analysis for less than 160 modes, 140 modes for example.

4. Execute the LIST SECTION command or a steel/reinforced concrete check/design command that requires the computation of section forces while one or more pseudo static loads from Step 2 above are active. The indicated abort will occur. The abort will also occur for load combinations that are dependent on pseudo static loads such as those computed by Step 2.

The introduction of Step 3 in the above sequence of four steps is inconsistent and should not be done. Steps 1, 2, and 4, however, do form a consistent and valid sequence of operations.